**Math Lesson Plan**

**Unit 1 - Day 3-4**

**August 30th-31st**

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| **Unit Essential Question(s)** | **What are variables?**  **How can we generate equivalent expressions?** | | |
| **Common Core Standard** | 6.NS.4 Part One | | |
| **Bloom’s** | (apply-3)  (DOK2) | | |
| **Learning Target(s)**  “I can…” Statements | * I can find all factors of any given number, less than or equal to 100. * I can find the greatest common factor of any two numbers, less than or equal to 100. * I can create a list of multiples for any number less than or equal to 12. * I can find the least common multiple of any two numbers, less than or equal to 12. * I can determine whether to use LCM or GCF and use it to solve a problem. | | |
| **Essential Vocabulary** | **Factor, product, factorization, greatest common factor, least common multiple, multiple** | | |
| **Resources and Materials** | **Teacher** | | **Student** |
| **Holt 4-2 pg. 151-154 GCF**  **Holt 5-1 pg. 194 LCM**  **On Core1-6, 1-7**  **Glencoe 5-1 pg. 177-180 GCF**  **Glencoe 5-4 pg. 194-197 LCM**  [fruit shoot GCF game](http://www.sheppardsoftware.com/mathgames/fractions/GreatestCommonFactor.htm)  [snowball fight LCM game](http://www.fun4thebrain.com/beyondfacts/lcmsnowball.html)  [Identifying Common Factors](https://gems.gcsnc.com/lvcontentitems_41/lvContentItems_41/DispForm.aspx?ID=61&source=/_layouts/LearningVillage/CloseDialog.aspx) (Video) | |  |
| **8 Mathematical Practices:** | | | |
| * 1. Make sense of problems and persevere in solving them. * 4. Model with mathematics. | | * 5. Use appropriate tools strategically. | |
| **Bell Ringer** | **Five minute check both days** | | |
| **Activating Strategy**  (Opening Activity) | ***Introduce day one***  **Given a whole number, students re evaluate how to express the number using multiplication. What numbers can be multiplied to create a new number.**  **Ex: 36, 48, 12**  **Want students to break down into factors.**  **36 could be 6x6, 12x3, 2x 18, 9 x 4**  **Then, break down those factors into factors.**  ***Complete Day Two (30th*)**  **Check Homework** | | |
| **Cognitive Teaching Strategies** | ***Day One:***  **Model Ladder/ M and F strategies.**  **Practice with white boards, play review games**  ***Day Two:***  **Carousel Brainstorm with sticky notes, students critique each other’s work.**  **Use On Core book 1-7 for guided practice.** | | |
| **Summarizing Strategy**  (Closing Activity) | **Day One:**  **Complete activity practice.**  **Day Two:**  **Divide students into six groups with two big M’s two big F’s and two big Ladders. Students work to find GCF and LCM.** | | |
| **Assessment** | | **Homework** | |
| **On Core GCFF pg. 26 and LCM pg. 28 students complete at 80% mastery.** | | **Glencoe Homework 5-1 and 5-4 pg. 603-604** | |
| ***Reateach/ Refine*** | | **Clear misconceptions from carousel brainstorm/walk.** | |